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L2	3	"7010060".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/10 17:59
L3	4925	375/376	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/10 17:59
L4	713	((frequency near2 detector) with digital) and (pll or (phase adj locked adj loop)) and vco	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR .	ON	2007/10/10 17:59
L5 .	154	L4 and L3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON ·	2007/10/10 17:59
L6	2	10/746434	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/10 17:59
L7	2	"6970046".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/10 17:59
L8	40	varactor with capacitor and pll and ((frequency adj detector) with digital)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/10 17:59

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L9	167	((frequency near2 detector) with digital) same (pll or (phase adj locked adj loop)) same vco	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/10 18:01
L10	47	L9 and L3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/10 17:59
L11	64	((frequency near2 detector) with digital) with (pll or (phase adj locked adj loop)) with vco	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/10 17:59
L12	2	"4580107".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/10 17:59
L13	2	"5,727,038".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/10 17:59
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L15	1559	331/11	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR ·	ON	2007/10/10 17:59
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L17	201	varactor with capacitor and pll and (frequency adj detector)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/10 17:59
L18	1015	varactor with capacitor and pll	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/10 17:59
L19	1	"10/396118"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR .	ON	2007/10/10 17:59
L20	. 2	"5,258,933".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/10 17:59
L21	167	((frequency near2 detector) with digital) same (pll or (phase adj locked adj loop)) same vco	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/10 17:59
L22	28	L15 and L21	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/10 17:59
L23	617	((frequency near2 detector) with digital) and pll and vco	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON .	2007/10/10 17:59

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L25	13	((frequency near2 detector) with digital) and analog adj loop and digital adj loop and (pll or (phase adj locked adj loop)) and vco	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OŅ	2007/10/10 17:59
L26	3	L22 and varactor	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/10 17:59
L27		("4651154"   "4701934"   "4785463"   "5222245"   "5365447"   "5402347"   "5420593"   "5535237"   "5535278"   "5592173"   "5594453"   "5629708"   "5650785"   "5663734"   "5703597"   "5708439"   "5781156"   "5798732"   "5831574"   "5841396"   "5854605"   "5874914"   "5884214"   "5897605"   "5901171"   "5943363"   "6160858"   "6888879").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/10/10 17:59
L28	2	"6094101".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/10 17:59
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L30	. 1	10/531132	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/10 17:59

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L32	21	L11 and L3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/10 17:59
L33	2	"4554672".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR .	ON	2007/10/10 18:04
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L38	2	"7038507".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR .	ON	2007/10/10 19:35
L39	2	"6970046".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/10 19:36
L40	2	"6683930".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/10 19:40
L41	2	"6366174".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/10 19:40
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Phase-locked loop (PLL) circuit containing a frequency detector ...

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<u>Linearized digital phase and frequency detector - Patent 4378509</u>
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Phase / frequency detector types | Comp.DSP | DSPRelated.com
Anyway, I've seen several phase-detector/frequency-detector circuits and ... are the signals called 'from VCO divided by N' and 'from reference frequency'.) ...
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Phase-Lock Loop Applications Using the MAX9382 - Maxim/Dallas
The MAX9382 is a phase frequency detector which eliminates Phase-Locked Loop (PLL)
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V and used to drive a VCO with a tuning range of up to 5 V. ... www.analog.com/UploadedFiles/Data\_Sheets/ADF4002.pdf - Similar pages

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3) Digital phase-frequency detector (CD4046 or MC4044 type). The main. advantage of the **analog phase detector** is its ability to recover a signal from a low ... ieeexplore.ieee.org/iel3/5075/13864/00640302.pdf?arnumber=640302 - Similar pages.

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6707342, Multiple-VCO tuning, 6714056, Frequency division. .... phase detector and a digital frequency detector provided separately therefrom are used. ... www.patentplex.com/tuning\_compensation\_cl331\_sc16/digital\_phaselocked loop 6970046.html - 119k - Cached - Similar pages [ More results from www.patentplex.com ]

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	2.	an analog	phase detector	op clock synthesizer usi			
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	3.	Digital ph the same	ase/frequency de	tector, and clock genera	ator and data recove	ry PLL containing	
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VCO	AN	D "analog phase detector" AND "digital frequency detector" results on scirus.co Page 2 of 2
		Berry, John B. / Booth, James R. / Hardin, Keith B. / Richey, John P. (Lexmark International, Inc.), UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT, Apr 2002 patno:US6366174applied to a voltage controlled oscillator (VCO) 40, which produces a high frequency clocksignal at 42. The output frequency at 42 from VCO 40 is optionally provided to a divider circuitused if the output frequency 42 produced by VCO 40 is much larger than desired for the output  Full text available at patent office. For more in-depth searching go to LexisNexis view all 7 results from Patent Offices similar results
	5.	Reference-free clock generation and data recovery PLL  Dalmia, Kamal (Cypress Semiconductor Corp.), UNITED STATES PATENT AND  TRADEMARK OFFICE GRANTED PATENT, Oct 2001 patno:US6310521112 and an VCO block (ordetector and a digital frequency detector, respectivelyimplements an analog phase detector 62 and a digital frequency detector 64. The circuitsumming). The analog phase detector 62 is not  Full text available at patent office. For more in-depth searching go to view all 7 results from Patent Offices similar results
	6.	Reference-free clock generator and data recovery PLL  Dalmia, Kamal / Agarwal, Anil (Cypress Semiconductor Corp.), UNITED STATES  PATENT AND TRADEMARK OFFICE GRANTED PATENT, Oct 2001  patno:US6307413half rate VCO 12. Referringimplements an analog phase detector 62 and a digital frequency detector 64. The circuitsumming). The analog phase detector 62 is notdiagram of the VCO of FIG. 4comprises a digital frequency detector. 4. The apparatus  Full text available at patent office. For more in-depth searching go to view all 7 results from Patent Offices  similar results
	7.	METHOD AND APPARATUS FOR PROVIDING A CLOCK GENERATION CIRCUIT FOR DIGITALLY CONTROLLED FREQUENCY OR SPREAD SPECTRUM CLOCKING  BERRY, John B. / BOOTH, James R. / HARDIN, Keith B. / RICHEY, John P. (LEXMARK INTERNATIONAL, INC.), PATENT COOPERATION TREATY APPLICATION, Aug 2001 patno:W00163768negative error. This phase detector is an analog phase detector, in which the maximum positive errorsine wave that is used to drive an analog phase detector of the Phase Locked Loop circuitthe voltage controlled oscillator (VCO) also can be optionally divided to  Full text available at patent office. For more in-depth searching go to LexisNexisview all 7 results from Patent Offices similar results
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